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Job No.: CTCE/BBMP/W.No.14/KRIDL/WMM/Gradation/2014-15

19.03.2015

GRADATION FOR WMM
MORTH TABLE-400-11

Client : **Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.

Agency : **Technical Manager (West),** KRIDL, Bangalore.

Name of Work : Improvements and asphalting to 1st Main Road and 1st A Main road and 10th Cross of Soundarya Layout in Ward No. 14, BBMP, Bangalore.

Reference : EE/DD/WO/451/2012-13 Dated: 08.03.2013

Date of Testing : 19.03.2015

Material : WMM

Sample Location : WMM Mix Plant

Oven Dry Wt (gm): **27801**

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits
53	0	0	0	100	100
45	976	976	3.5	96.5	95-100
22.4	7121	8097	29.1	70.9	60-80
11.2	5149	13246	47.6	52.4	40-60
4.75	4625	17871	64.3	35.7	25-40
2.36	3456	21327	76.7	23.3	15-30
0.600	2378	23705	85.3	14.7	8-22
0.075	2571	26276	94.5	5.5	0-8

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20.03.2015

GRADATION FOR WMM
MORTH TABLE-400-11

Client : **Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.

Agency : **Technical Manager (West),** KRIDL, Bangalore.

Name of Work : Improvements and asphalting to 1st Main Road and 1st A Main road and 10th Cross of Soundarya Layout in Ward No. 14, BBMP, Bangalore.

Reference : EE/DD/WO/451/2012-13 Dated: 08.03.2013

Date of Testing : 20.03.2015

Material : WMM

Sample Location : WMM Mix Plant

Oven Dry Wt (gm): **27461**

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits
53	0	0	0	100	100
45	945	945	3.4	96.6	95-100
22.4	7236	8181	29.8	70.2	60-80
11.2	5489	13670	49.8	50.2	40-60
4.75	4021	17691	64.4	35.6	25-40
2.36	3478	21169	77.1	22.9	15-30
0.600	2311	23480	85.5	14.5	8-22
0.075	2456	25936	94.4	5.6	0-8

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GRADATION FOR WMM
MORTH TABLE-400-11

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Agency : **Technical Manager (West),** KRIDL, Bangalore.

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Reference : EE/DD/WO/451/2012-13 Dated: 08.03.2013

Date of Testing : 20.03.2015

Material : WMM

Sample Location : WMM Mix Plant

Oven Dry Wt (gm): 27573

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits
53	0	0	0	100	100
45	899	899	3.3	96.7	95-100
22.4	7121	8020	29.1	70.9	60-80
11.2	5264	13284	48.2	51.8	40-60
4.75	4056	17340	62.9	37.1	25-40
2.36	3678	21018	76.2	23.8	15-30
0.600	2456	23474	85.1	14.9	8-22
0.075	2574	26048	94.5	5.5	0-8

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GRADATION FOR WMM
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Reference : EE/DD/WO/451/2012-13 Dated: 08.03.2013

Date of Testing : 20.03.2015

Material : WMM

Sample Location : WMM Mix Plant

Oven Dry Wt (gm): 28321

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits
53	0	0	0	100	100
45	898	898	3.2	96.8	95-100
22.4	7987	8885	31.4	68.6	60-80
11.2	5248	14133	49.9	50.1	40-60
4.75	4056	18189	64.2	35.8	25-40
2.36	3478	21667	76.5	23.5	15-30
0.600	2451	24118	85.2	14.8	8-22
0.075	2678	26796	94.6	5.4	0-8

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GRADATION FOR WMM
MORTH TABLE-400-11

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Agency : **Technical Manager (West),** KRIDL, Bangalore.

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Reference : EE/DD/WO/451/2012-13 Dated: 08.03.2013

Date of Testing : 20.03.2015

Material : WMM

Sample Location : WMM Mix Plant

Oven Dry Wt (gm): **28193**

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits
53	0	0	0	100	100
45	888	888	3.1	96.9	95-100
22.4	7842	8730	31.0	69.0	60-80
11.2	5145	13875	49.2	50.8	40-60
4.75	4126	18001	63.8	36.2	25-40
2.36	3789	21790	77.3	22.7	15-30
0.600	2489	24279	86.1	13.9	8-22
0.075	2389	26668	94.6	5.4	0-8

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19.03.2015

Aggregate Impact Value

IS: 2386 Part IV

Client	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
Agency	**Technical Manager (West),** KRIDL, Bangalore.
Name of the Work	Improvements and asphalting to 1st Main Road and 1st A Main road and 10th Cross of Soundarya Layout in Ward No. 14, BBMP, Bangalore.
Reference	EE/DD/WO/451/2012-13 Dated: 08.03.2013
Source / Location	WMM Plant
Type of Mix	Wet Mix macadam
Date of Testing	19.03.2015

Sl No.	Details	Trial No. 1	Trial No. 2	Average
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	389	379	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	88	89	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	301	290	
4	Aggregate Impact value = percent fines	22.62	23.48	
	100* (W_2/W_1)%			23.05

Comments:

→ Maximum allowable Aggregate Impact value for Wet mix Macadam is 30%

Note:

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19.03.2015

Aggregate Impact Value

IS: 2386 Part IV

Client	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
Agency	**Technical Manager (West),** KRIDL, Bangalore.
Name of the Work	Improvements and asphalting to 1st Main Road and 1st A Main road and 10th Cross of Soundarya Layout in Ward No. 14, BBMP, Bangalore.
Reference	EE/DD/WO/451/2012-13 Dated: 08.03.2013
Source / Location	WMM Plant
Type of Mix	Wet Mix macadam
Date of Testing	19.03.2015

Sl No.	Details	Trial No. 1	Trial No. 2	Average
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	382	386	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	86	87	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	296	299	
4	Aggregate Impact value = percent fines	22.51	22.54	
	100* (W_2/W_1)%			22.53

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Comments:

→ Maximum allowable Aggregate Impact value for Wet mix Macadam is 30%

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19.03.2015

Aggregate Impact Value

IS: 2386 Part IV

Client	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
Agency	**Technical Manager (West),** KRIDL, Bangalore.
Name of the Work	Improvements and asphalting to 1st Main Road and 1st A Main road and 10th Cross of Soundarya Layout in Ward No. 14, BBMP, Bangalore.
Reference	EE/DD/WO/451/2012-13 Dated: 08.03.2013
Source / Location	WMM Plant
Type of Mix	Wet Mix macadam
Date of Testing	19.03.2015

Sl No.	Details	Trial No. 1	Trial No. 2	Average
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	379	383	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	85	86	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	294	297	
4	Aggregate Impact value = percent fines	22.43	22.45	
	100* (W_2/W_1)%			22.44

Comments:

→ Maximum allowable Aggregate Impact value for Wet mix Macadam is 30%

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DETERMINATION OF FLAKINESS INDEX & ELONGATION INDEX OF COARSE AGGREGATES

Client	: **Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
Agency	: **Technical Manager (West),** KRIDL, Bangalore.
Name of Work	: Improvements and asphalting to 1st Main Road and 1st A Main road and 10th Cross of Soundarya Layout in Ward No. 14, BBMP, Bangalore.
Reference	: EE/DD/WO/451/2012-13 Dated: 08.03.2013
Technical Reference	: IS 2386(Part 1) 1963 (RA 2007)
Type of Mix	: Wet Mix Macadam
Date of Testing	: 20.03.2015

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Result : Flakiness Index = **12.13%**

Elongation Index = **13.26%**

Result : Combined Flakiness & Elongation index **25.39%**

Comments:

Maximum allowable Flakiness & Elongation Index for Wet Mix Macadam is 30%

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DETERMINATION OF FLAKINESS INDEX & ELONGATION INDEX OF COARSE AGGREGATES

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Agency	: **Technical Manager (West),** KRIDL, Bangalore.
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Reference	: EE/DD/WO/451/2012-13 Dated: 08.03.2013
Technical Reference	: IS 2386(Part 1) 1963 (RA 2007)
Type of Mix	: Wet Mix Macadam
Date of Testing	: 20.03.2015

Result : Flakiness Index = **11.62%**

Elongation Index = **13.23%**

Result : Combined Flakiness & Elongation index **24.85%**

Comments:

Maximum allowable Flakiness & Elongation Index for Wet Mix Macadam is 30%

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DETERMINATION OF FLAKINESS INDEX & ELONGATION INDEX OF COARSE AGGREGATES

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Technical Reference	: IS 2386(Part 1) 1963 (RA 2007)
Type of Mix	: Wet Mix Macadam
Date of Testing	: 20.03.2015

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Result : Flakiness Index = **11.89%**

Elongation Index = **13.96%**

Result : Combined Flakiness & Elongation index **25.85%**

Comments:

Maximum allowable Flakiness & Elongation Index for Wet Mix Macadam is 30%

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